15,2410

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S/180/61/000/004/013/020

E071/E180

AUTHORS:

Meyerson, G.A., Dergunova, V.S., Epel'baum, V.A.,

(Moscow) and Gurevich, M.A.

TITLE:

An investigation of some hard alloys of the

Boron-Silicon-Carbon system

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo.

90-94 no. 4, 1961,

The above system has, as yet, been insufficiently studied. For this reason the authors investigated three groups of alloys of the following types; alloys close to the zone of solid solutions based on SiC, alloys based on B4C, and alloys of the central part of the ternary B-Si-C system. In the latter, the points were chosen so as to overlap the zones in which previous investigators assumed the possibility of the existence of a ternary compound of the type BxSiyCz. Specimens of the alloys were obtained by hot pressing powder mixtures of the elements at 2000-2100 °C (no details of the preparation are given). Spectral

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analysis of the specimens indicated that the sum of admixtures (Fe, Mg, Al, Ca) did not exceed 0.1%. Porosity did not exceed 2-5%, and density was uniform throughout the whole volume of the specimens. A prolonged high temperature annealing (50-1000 below pressing temperature) brought the alloys to the equilibrium state with an increase in the grain size, but did not cause any changes in the chemical composition, or any increase in the porosity. The specimens were submitted to metallographic and X-ray analysis and microhardness measurements. The following conclusions are 1) A phase exists in the B-Si-C system with a melting temperature above 2100 °C and a very high hardness (about 7000 kg/mm² and above), noticeably exceeding the microhardness of boron carbide (5000 kg/mm²). 2) In specimens produced and treated in the described way, metallographic and X-ray analysis did not show the presence of any new phases in noticeable quantities, only solid solutions based on BAC, SiC and Si (the latter at an insufficient carbon content). The X-ray analysis indicated that the solubility of silicon (or siliconcarbide) is small in boron carbide (less than 2% if calculated on Si), but metallographic investigation suggested Card 2/4

28875

S/180/61/000/004/013/020 An investigation of some hard alloys... E071/E180

the presence of an apparently single phase up to 10-12% silicon. This can be explained by the separation of submicroscopically dispersed SiC particles on cooling. The microhardness of such grains, based on B4C, is 7000 kg/mm2 and, in some cases reaches 3) Grains of solid solutions based on SiC have a 8000 kg/mm². microhardness of 5000-5200 kg/mm2 instead of the 3500 of pure SiC. 4) The hardness of B-Si-C alloys changed little up to a temperature of 700-800 °C. For alloys based on B4C, the hardness of 6000-7000 kg/mm2 at 200 dropped to 3000 kg/mm2 at 800-900 oc and, for alloys based on SiC, from 4000-5000 kg/mm2 to 1500 kg/mm2. During these measurements, the formation of cracks was observed around the indentation in a number of cases, indicating that the actual hardness values could be higher. The work was carried out in the Kafedra redkikh metallov i poroshkovoy metallurgii (Department of Rare Metals and Powder Metallurgy) of the Institut tsvetnykh metallov imeni M.I. Kalinina (Institute of Non-ferrous Metals imeni M.I. Kalinin), in cooperation with the Fiziko-Khimicheskiy institut imeni L.Ya. Karpova (Physico-Chemical Institute imeni L. Ya. Karpov).

Card 3/4

The Control of the American section of the control of the Control

28875 s/180/61/000/004/013/020 An investigation of some hard alloys ... E071/E180 There are 1 figure, 1 table and 4 references: 3 Soviet-bloc and

l English. The English language reference reads as follows:

Ref. 1; F. Ton. The quest for hard materials. Industrial and Engineering Chemistry. Industrial edition, 1938, 30, 232-242.

SUBMITTED: November 21, 1960

Card 4/4

CIA-RDP86-00513R000617420008-3 "APPROVED FOR RELEASE: 03/20/2001

s/192/61/002/001/006/006 B107/B218

AUTHORS:

Epel'baum, V. A., Sevast'yanov, N. G., Ormont, B. F., and

Gurevich, M. A.

TITLE:

A possible existence of volume-centered phases of boron carbide

and silicon oxycarbide

Zhurnal strukturnoy khimii, v. 2, no. 1, 1961, 65

TEXT: It has been stated in Ref. 1 (V. A. Epelbaum, M. A. Gurevich, B. F. Ormont, Zh. neorg. khimii, 1, 2149 (1956)) that lines of a cubic, volume-centered phase occur in preparations of boron carbide, which conclusion was drawn from the reflections of the X-ray picture. This volume-centered phase was called beta phase; it has a period of identity of 3.16 kX. The composition of this phase was not determined. The intensity of the reflections was very high for all samples, for some even higher than that of the reflections of the alpha phase. This led to the assumption that the beta phase belongs to the boron carbon system. The presence of impurities could, however, hardly be excluded, though every attempt was made to remove them (treatment with hydrofluoric and other acids). The authors of Ref 2 (V. A. Epel'baum, M. A.

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420008-3"

CIA-RDP86-00513R000617420008-3 "APPROVED FOR RELEASE: 03/20/2001 1450年後、教育経験は表示とは、1915年に対しています。 1915年に対しています。 1915年に対していまする。 1915年に対しています。 1915年に対しにははははははははははははははははははははははははははははは

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A possible existence ...

Gurevich, B. F. Ormont, Zh. neorg. khimii, 4, 1938, (1959)) found that lines of this volume-centered phase occur in preparations with strongly differing content of boron and carbon. Thus, it was not possible to establish the position of the phase in the phase diagram of boron-carbon. This fact led to doubts about the composition of the phase, and thus to further experiments (see below). The authors of Ref. 2 had pointed out that spectrum analysis did not show any considerable content of impurities. In 1958, Samsonov had published papers (Ref. 3: G. V. Samsonov, Zh. fiz. khimii, 32, 2424 (1958); published papers (Ref. 3: G. V. Samsonov, Zh. fiz. khimii, 32, 2424 (1958); Ref. 4: G. V. Samsonov, Ukr. khim. zh., 24, no. 6, 659 (1958)), in which he stated already in 1952/1953 he had detected this phase in boron carbide, together with Zhungulov. gether with Zhuravlev, and found it to be silicon pxycarbide. Despite Samsonov's statement, this fact needs a further proof, especially since silicon oxycarbide is of practical, and the detection of Samsonov and Zhuravlev is of theoretical importance. Hitherto, only cubic silicon carbide and silicon oxycarbide have been known, both only with face-centered cell of the sphalerite type. A system of lines in the X-ray picture, however, corresponds to this structure which completely differs from that of the cubic, volume-centered cell. Thus, Samsonov claims to have detected a new phase of silicon oxycarbide with cubic, volume-centered cell and a period of identity Card 2/4

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A possible existence ...

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of 3.16 kX. The authors of the present paper point out that a cubic, volumecentered cell with a period of identity of 3.16 kX leads to certain crystallochemical difficulties, both with boron carbide and silicon oxycarbide. This difficulty lies in the fact that the interatomic distance $d = a\sqrt{3/2} = 2.85$ kX is larger than the sum of the radii of the individual atoms. In order to explain this fact, it would be necessary to assume the existence of structural centers into which atom impurities enter, or one must assume the existence of complex structural centers with a corresponding system of reflections. The authors therefore arrived at the following conclusion: The system of reflections corresponding to a cubic, volume-centered cell of boron carbide is parasitic; it is formed by the occurrence of an additional phase in the preparation. By their careful experiments and control, the authors found that this admixture is introduced by the tungsten wire which is used for filling the sample to be studied radiographically into the capillary. For the first moment, it was striking that thereby such quantities of impurities could enter into the preparation that their lines are more intense than that of the main mass (Ref. 1). If, however, the great difference of the scattering power of tungsten as compared to boron, silicon, and carbon is considered, then the above effect, which was also observed by Card 3/4

A possible existence ...

s/192/61/002/001/006/006 B107/B218

the authors of Ref. 2, becomes probable. One may assume that the cubic, volume-centered phase of silicon oxycarbide, which was detected by Samsonov and Zhuravlev (Ref. 3) in 1952, has the same origin. [Abstracter's note: This is a full translation from the original. There are 4 Soviet-bloc

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Institute of Physical Chemistry imeni L. Ya. Karpov)

SUBMITTED:

January 21, 1960

Card 4/4

S/032/62/028/012/021/023 B104/B186

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AUTHORS:

Fomin, V. G., and Gurevich, M. A.

TITLE:

Accessory to the PKCO (RKSO) standard X-ray camera for the

detection of structural defects in germanium

PERIODICAL:

Zavodskaya laboratoriya, v. 28, no. 12, 1962, 1526

TEXT: The device described here makes use of the anomalous X-ray absorption to detect structural defects, above all dislocations, in germanium. The device (Fig.), made of brass, is fastened to the sample holder of the goniometer nend of the X-ray camera so that the crystal can be adjusted in proper relation to the X-ray beam. The crystal (1) is a single-crystal plate (0.7-2 mm thick) with a diameter of 3-20 mm. It is fastened to the base plane of the body (2) by the screw (3) so that the axis of the sample holder (4) of the goniometer lies in the plane of the base of (2). The body (5) can be detached with respect to the base plane of (2). The X-ray film is in a badge (6) of black paper. A germanium single crystal plate (of 15 mm diameter, 3 mm thick), oriented with an accuracy of 1-20 in the (III) plane, was ground with abrasive powders of various grades. In this way,

Card 1/2

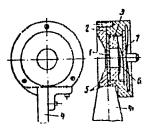
Accessory to the IKCO (RKSO)...

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the deviation from the (III) plane was reduced to 10'. The sample was then polished for 20 sec at 48°C with $C\pi$ -4 (SP-4) etchant. Before this chemical polishing the plate was 0.9 mm thick. There is 1 figure.

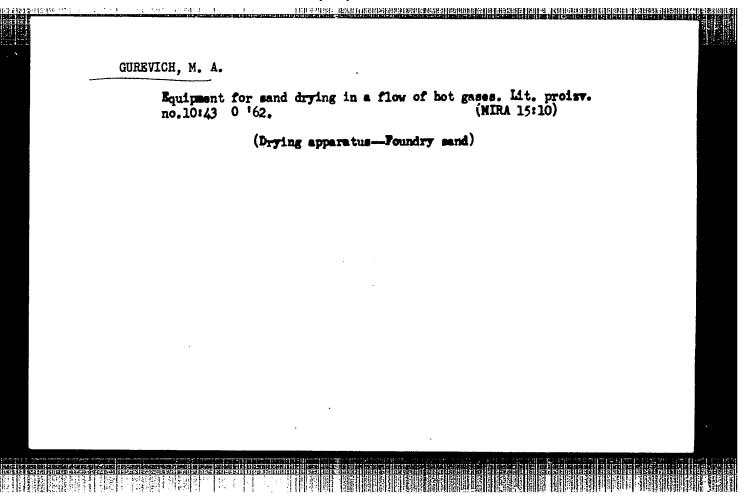
ADSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i propoktnyy institut redkometallicheskoy promyshlennosti (State Design and Planning Scientific Research Institute of the Rare Hethis Industry)

Fig. Schematic diagram of the accessory.



Слемя мриспособления

Card 2/2



GUREVICH, M.A.

Calorimetry of vanadium carbides. Zhur. neorg. khim. 3 no.12: 26.5-2650 D '63.

Tensimetry of vanadium carbides. Ibid.:2651-2658 (MIRA 17:9)

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L 12464-65 ENG(j)/ENT(m)/EPF(c)/EPR/E RAEM(e)/RAEM(c)/ESD(gs)/ESD(t) JD/JG ACCESSION NR: AP4048431	5/0181/64/006/011/3467/3463
AUTHOR: Shestakova, N. A.; Gurev Nashel'skly, A. Ya.	ich, M. A.; Harina, L. I.;
TITLE: Micrographic investigation	n of gallium-phosphide crystals
SOURCE: Fizika tverdogo tela, v.	6, no. 11, 1964, 3467-3468
crystallogrowth. crystal etching,	or, gallium phosphide crystal single crystal structure defect, crystal
dislocation, twin crystal	gallium-phosphide crystals has been
studied using a new etching formu	1. 11 Fearont mathods (from stoichio-
metric or nonstolenlometric metric	rea emphasized as one of the most
promising AlliBy-compound somicon	and dank and hydrochloric acid as
the solvent for gallium oxide.	dicrographs of the etched actcular or
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ACCESSION NR: AP4048431

lamellar crystals revealed not only dislocations, but also other structure defects such as bands or spirals of growth. Dislocation etch pits were described as triangular pyramids uniformly distributed in most lamellar crystals and clustered around the boundary between two differently oriented regions in acicular crystals. Two differently oriented regions were also observed in lamellar drystals. These observations led to the conclusion that some of the crystals grown by either method were twins or contained differently oriented inclusions. Orig. art. has: 2 figures.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skly i proektny*y institut redkometallicheskoy promy*shlennosti, Moscow (State Design and Planning Scientific Research Institute of the Rake Metals

Industry)

SUBMITTED: 15May64

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APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000617420008-3"

FOMIN, V.G.; SARAWTSEV, V.F.; SHCHEGOL'KOVA, L.A.; GUREVICH, M.A.

Scanning camera for studying dislocations. Prib. i tekh.
eksp. 9 no.2:176-177 Mr-Ap'64. (MIRA 17:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut redkometallicheskoy promyshlennosti.

ACCESSION NR: APLO24989

8/0070/64/009/002/0219/0226

AUTHORS: Fomin, V. G.; Hill videkiy, H. G.; Grishina, S. P.; Belyatskaya, N. S.; Gurevich, H. A.

TITLE: Some structural features of highly doped single crystals of silicon

SOURCE: Kristallografiya, v. 9, no. 2, 1964, 219-226

TOPIC TAGS: silicon, single crystal growth, crystal structure, metallographic study, x ray study, crystal pulling, impurity content

ABSTRACT: Metallographic and x-ray studies have shown several distributional patterns of impurities in the body of a silicon rod, including cellular substructure. An increase in impurity concentration substantially affects the structure of the crystal and, to a considerable degree, determines growth characteristics. All else being the same, increased impurity concentration in a melt and in the solid rod apparently increases periodic fluctuations in growth rate during pulling and produces associated periodic irregularities in impurity distribution. These irregularities appear in longitudinal sections and in spiral growth rings in transverse sections. Such highly doped crystals show a greater tendency to grow

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ACCESSION NR: APLO24989

along definite crystal faces. At a certain impurity concentration, crystals begin to show a distinct knobby surface, then a cellular substructure. The general pattern of development of the cellular substructure is the same as in highly doped crystals of Ge. No dislocations were detected in the investigated single crystals. This and the presence of cellular structure are anomalous features when coexisting in the same crystals. Actually, the edge of a cell may be considered a dislocation, and the disorientation angle may give an approximate evaluation of impurity desegregation along this zone. Block structure is responsible for this cellular development. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy i proyektny*y institut redkometallicheskoy promy*shlennosti (State Scientific Research and Planning Institute of the Rare-Hetal Industry)

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ACCESSION NR: APLO24990

s/0070/64/009/002/0227/0230

AUTHORS: Fomin, V. G.; Malyutina, G. L.; Gurevich, M. A.; Novikov, A. G.

TITLE: Distribution of gold in germanium single crystals

SOURCE: Kristallografiya, v. 9, no. 2, 1964, 227-230

TOPIC TAGS: germanium, gold, antimony, gold alloyed germanium, antimony alloyed germanium, alloy distribution in crystals, spectral germanium analysis, x-ray germanium analysis, GUR-3 x-ray geniometer, URS-501 x-ray apparatus, lattice germanium analysis, GUR-3 x-ray geniometer, URS-501 x-ray apparatus, lattice structure, dislocation density, dispersion, alloy separation, cooling effect

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ABSTRACT: The distribution of small quantities of gold in germanium single crystals was studied with the use of a double-crystal spectrometer (Bragg-Bragg orientation) and a special attachment mounted on the GUR-3 goniometer of a URS-501 x-ray apparatus. The n-type germanium served as a crystal-monochromator, while the samples studied were cut from different parts of a germanium ingot alloyed with gold to 1015 cm⁻³ and with antimony to 10 cm⁻³. The concentration of the uncontrolled acceptor-admixtures did not exceed 1013 cm⁻³. Data obtained by the x-ray and metallographic (etching) analyses were compared after the dislocation

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ACCESSION NR: APLO24990

density in the areas studied spectrometrically was determined. It was at first established that defects observed in the Ge crystalline lattice were caused by the presence of Au and Sb. Further study showed that gold rather than antimony atoms were responsible for the presence of these defects. An explanation is offered of two possible causes of the phenomenon: 1) the presence of dispersed eutectic inclusions of Au; 2) dispersion separation of Au from the solid solution during cooling. The authors conclude that gold atoms in a germanium monocrystal are distributed between the undisturbed matrix and dislocations. Orig. art. has: 3 figures.

ASSOCIATION: Gosudarstvennywy nauchno-issledovatel'skiy proyektnywy institut redkometallicheskoy promywshlennosti (State Scientific Research Institute of Rare Metals Industry)

SUBMITTED: 16May63

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	J. 11268-65 EWE(m)/EWP(t)/EWP(b) LJP(c)/AS(mp)-2/ASD(a)-5/RLH(a)/ASD(m)-3/SSD/
A Second	L 11268-65 EWE(m)/EWP(t)/EWP(b) LJP(c)/AS(mp)-2/ASD(a)-5/RLEM(a)/ASD(m)-3/SSD/ RAEM(c)/4FG//ESD/66//DSD(t) UD S/0070/64/009/005/0752/0754 ACCESSION NR: AP4046052 S/0070/64/009/005/0752/0754
	AUTHORS: Shestakova, N. A.; Gurevich, M. A.; Ivleva, V. S.
	TITLE: Metallographic investigation of structural defects (dislocations) of indium antimonide single crystals
体。 (数) (数)	SOURCE: Kristallografiya, v. 9, no. 5, 1964, 752-754
	TOPIC TAGS: indium antimonide, single crystal, dislocation density, stoichicmetry, crystal growth, semiconductor material, structural
	dislocation, metallography
	ABSTRACT: A polished section was prepared, coinciding with the (111) plane accurate to better than 3°, with the orientation of the single plane accurate to better than 3°, with the orientation of the single crystals determined by the Laue method. This was followed by me-
	crystals determined by the nace means and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing of the investigated surface and etching in a chanical polishing in a
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single crystals discloses many important scans	ralski method. Another reature of the sence of small-angle boundaries of difference was also found that the structure of single from a melt containing an excess of one of greatly from the structure of ingots obtainmentic composition. This is possibly due the crystallization front. It is stated of metallographic procedures for the inversingle crystals discloses many important	ent widths and lengths. It le-crystal ingots drawn E the components differs ined from melts of stoichi- e to the radical change in in conclusion that the use stigation of semiconductor

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TSYGAN, V.T.; CHISTYAKOVA, M.F., BYKOV, P.N.; GUREVICH, M.A.; SHCHEGOL'KOVA, L.A.

Thermostatic devices for X-ray cameras. 2av. lab. 30 no.5:630 '64. (MIRA 17:5)

1. Gosudarstvennyy nauchno-issledovatel akiy i proyektnyy institut redkometallicheskoy promyshlennosti.

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	L 36293-65 ACCESSION NR: AP5007530 UR/0292/65/000/003/0003/0005
	AUTHOR: Lidorenko, N. S. (Doctor of technical sciences, Professor); Koiseyev, I. N. (Candidate of technical sciences); Voronkov, G. Ya. (Candidate of Koiseyev, I. N. (Candidate of technical sciences); Voronkov, A. O. (Engineer)
	TITLE: Electrochemical transducers for acoustic-signal reception and placement measurements
	SOURCE: Elektrotekhnika, no. 3, 1965, 3-5
	many macs. electrochemistry, acoustic transducer, acoustics
	Abstract: The transducer with two-sided diaphragm (Fig. la) is a plastic veget. Abstract: The transducer with two-sided diaphragm (Fig. la) is a plastic veget. comprising two chambers connected by a channel. The platinum main cathode, cylin- comprising two chambers connected by a channel, and the grid electrodes, in the anode drical in shape, is located in the channel, and the grid electrodes, in the anode and cathode chambers. The transducer with one-sided diaphragm is also a two- and cathode chambers. The transducer with one-sided diaphragm is also a two- and cathode chambers. The transducer with one-sided diaphragm is also a two- and cathode chambers. The transducer with one-sided diaphragm is also a two-
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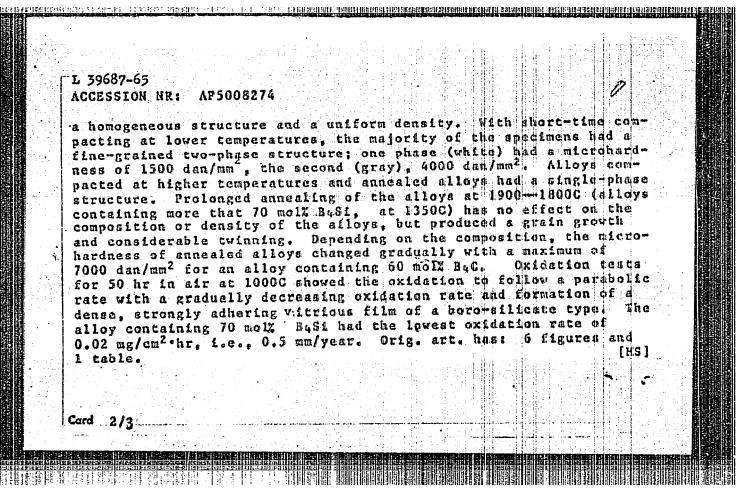
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ducer to sound pressure is constant increases with increased wound pressure. A drop
in sensitivity with an increase in the sound pressure is evident in Figure 2b. Figure 2c shows the dependence of output current on sound pressure. The principal
characteristics of the acoustic transducers are as follows: 1) frequency range of linear output (depends on sound pressure), 0.18 cps; 2) range of measurable
sound pressures, 0.525 newton/m ² ; 3) output current, 10100 \(\mu\) amp; 4) idight, including the electrolyte, 50 g. The electrochemical transducer of small mechanical
displacements is a plastic vessel with two concentrically arranged chambers (Fig. 1c). It has a one-sided diaphragm arrangement to reduce vibration effects.
 The dependence of output current on the amplitude of diaphragm displacements at a constant frequency is shown in Fig. 3a; the dependence of output current on the
mechanical signal frequency at a constant amplitude, in Fig. 35. The mechanical- displacement transducer has the following basic characteristics: 1) operational
frequency range (depends on the magnitude of disphragm displacement). 0.1-5 cps;
2) range of measurable displacements, 0.110 4; 3) output current, 56 pamp; 4) weight, approx 3 g. Orig. art. has: 5 graphs, 4 figures.
그 그는 그 양동생들은 그 그 전에 만든 발생활활화를 하는 점인 계획 하는 생활을 하고 있다.
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LIBORETTO, L.S., dektor tekhn. nauk, prof.; lvijer.v, l.L., kand. tekhn. nauk; voncerkov, G.Ya., kand. tekhn. nauk; GUELVIGH, M.A., inzh.

Electrochemical transducers for oscillation and weight measurements.
Elektrotekhnika 36 no.4:22-25 Ap 165.

(MIRA 18:5)

EMP(e)/EMT(m)/EPF(c)/EPF(n)-2/EWG(m)/EWA(d)/T/EPE/EMP(t)/ EMP(k)/EMP(z)/EMP(b)/EMA(c) Pf-4/Pg-4/Pu-4 IJP(c) JD/JG/MB/AT/M \$/0226/65/000/003/0062/0068 ACCESSION NR: APSO08274 AUTHOR: Meyerson, G. A.; Kiparisov, S. S.; Gurevich, M. A.; Teng, Feng-haiang TITLE: Conditions of synthesis and some properties of sintered alloys of the pseudobinary B.C-B.Si system SOURCE: Poroshkovaya metallurgiya, no. 3, 1965, 62-68 TOPIC TAGS: 1 boron carbide alloy, boron silicide containing alloy, alloy synthesis, alloy property, alloy structure, alloy oxidation resistance A series of B4C-B4S1 alloys containing from 0 to 100 mol ABSTRACT: Busi have been synthesized by the powder-metallurgy method and investigated to determine the optimum conditions of synthesis which would ensure a homogeneous structure and maximum density of the alloys while preserving a given composition. The components were found to form a continuous series of solid solutions. Alloys were obtained by hot compacting stoichiometric: charge B4C-rich alloys at 1900-2000C and Bust-rich alloys at 1800-1700C. The hot compacted specimens had



ACCESSION NR: APS ASSOCIATION: Hosk for Steel and Allo	ovskiy institut stali	i splavov (Hos	cow Institut	
SUBMITTED: 03Dec6		SUB	CODE: HM, I	
NO REF SOV: 004	OTHER: 00)5 ATD	Press: 329	

L 08553-67 EMP(j)/EWT(m) RH/WW/JW/GD

ACC NR. AT6032000

SOURCE CODE: UR/0000/66/000/000/0241/0251

AUTHOR: Agafonova, F. A. (Leningrad); Gurevich, M. A. (Leningrad);
Tarasova, Ye. F. (Leningrad)

ORG: none

TITLE: Self ignition and the induction period of liquid fuel droplets

SOURCE: Teplo- i massoperenos, t. 4: Teplo- i massoobmen pri khimicheskikh prevrashcheniyakh v tekhnologii (Heat and mass transfer, v. 4: Heat and mass transfer during chemical transformations). Minsk, Nauka 1 tekhnika, 1966, 241-251

TOPIC TAGS: air fuel combustion, hydrocarbon fuel, liquid fuel, ignition, industion period, octane, cetane, FUEL IGNITION

ABSTRACT: The ignition of hexane, n-octane, and cetane droplets (0.0014-0.002 m in diameter) was studied by suspending the droplets from a quartz filament in a vertical tube through which preheated air was passed at velocities of 1.3-4.9 m/sec. The ignition process was studied by motion picture photography and induction time vs air temperature plots were obtained (see Figs. 1 and 2). A theoretical analysis yielded the following formula for the dimensionless induction time:

Card 1/4

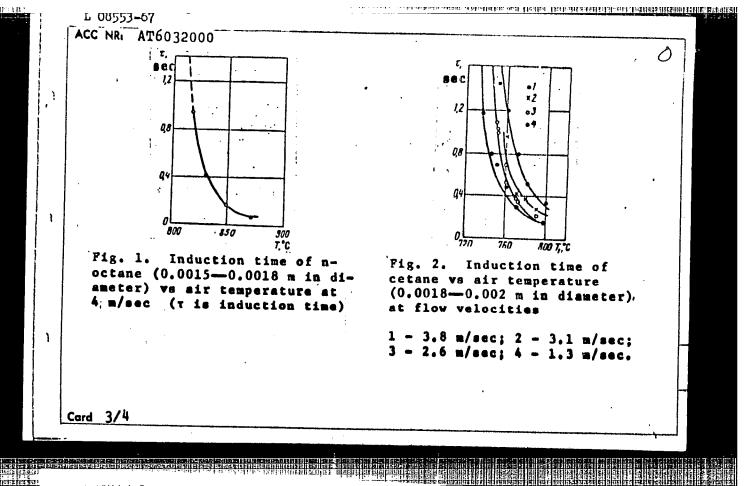
L 08553-67

ACC NR: AT6032000

$$F_{0} = \int_{0}^{\theta_{0}} \frac{d\theta_{0}}{\frac{3}{2} \cdot \frac{\rho_{0}}{\rho_{1}} \frac{c_{p}}{c_{1}} \operatorname{Nu}\left(|\theta_{0}'| - \frac{l}{qn_{\text{gl}}}\right) \ln \eta_{1}},$$

where θ₀ is the reduced temperature during the induction period; θ'₀ = 1/qn_{k1}; q, heat of reaction; n_{k1}, oxygen concentration; ρ₁, density of liquid; ρ₀, density of gas; c_p, heat capacity of gas; c_l, heat capacity of liquid; η₁ = 1/1-η₂0; and η₂0 is the concentration of oxygen in vapor. The results of numerical integration for n-octane/and cetane are shown in Figures 3 and 4, respectively. It is concluded that the studied fuels cannot ignite at the wet bulb temperature but they always ignite at a lower temperature. The induction time changes with the temperature of the medium faster than the temperature gradient across the droplet-medium interphase. The reduced film model used, which allows for the kinetic resistance, permits the approximate calculation of the ignition limits, the surface temperature of the droplet prior to ignition, and the induction period. Bao Ke-da and I. M. Sulima participated in the work. Orig. art. has: 7 figures, 24 formulas. and [WA No. 68]

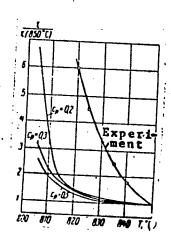
Card 2/4



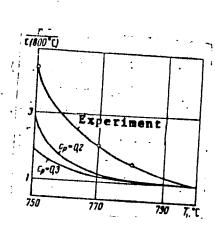
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ACC NR: AT6032000

LEGISTES!



Pig. 3. Numerical integration for octane



Numerical integration

SUB CODE: 21/ SUBM DATE: 25Apr66/ ORIG REF: 003/ OTH REP:

ns/ Card 4/4

SOURCE CODE: UR/0363/67/003/001/0175/0176

AUTHOR: Aigina, N. R.; Gurevich, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, L. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, M. A.; Masiov, M. A.; Domenkov, N. M.; Zhukova, M. A.; Masiov, M. A.; Domenkov, M. A.; Domenkov, M. A.; Zhukova, M. ACC NAPRRONDED FOR RELEASE: 03/20/2001

N.; Sakharov, B. A.

ORG: Girodmot

TITIE: Electron diffraction study of epitaxial indium phosphide layers

SOURCE: AN SSSR. Izvestiya. Neorganicheskiyo materialy, v. 3, no. 1, 1967, 175-176

TOPIC TAGS: indium compound, phosphide, epitaxial growing, electron diffraction analysis

ABSTRACT: Epitaxial layers of indium phosphide were grown by using the sandwich method (small gaps between the source and substrate). The chemical transport was accomplished in a stream of hydrogen, water vapor acting as the carrier reagent:

$$4 \ln P + 2 H_2 0 \Rightarrow 2 \ln_2 0 + 2 H_2 + P_4$$

Electron diffraction patterns were obtained from InP films 10 to 120 u thick grown on GaAs at 680, 780 and 830°. An essential factor affecting the perfection of the on wars at oou, for and operation an essential radior arrecting the perfection of the crystal structure of the InP layers was found to be a close maintenance of the orientation of the {iii} B substrate surface. It is shown that, strictly speaking, the growth of the InP layers was nonepitaxial. This is because during the first stages

546.682'181.1+539.27 UDC:

1/2 Card

ACC NR: AP7006210

of deposition the layer grew epitaxially (i. e., reproduced the crystallographic orientation of the substrate completely), but later gradually changed its orientation, coming closer to the [iii] direction of growth. A pronounced twinning indirectly confirms this conclusion. The measurements were made at the Institute of Semiconductors, AN SSSR (Institut poluprovodnikov AN SSSR), under the supervision of V. K.

SUB CODE: 07,20/ SUEM DATE: 24Jan66/ ORIG REF: 004/ OTH REF: 005

GODLEVSKIY, N.A., inzh.; GUREVICH, M.B., inzh.

Setting norms for operations in the assembly of technological equipment. Mont. i spets. rab. v stroi. 23 no.9:25-26 5 61.

(MIRA 14:9)

1. TSentral'noye normativno-issledovatel skye byuro Ministerstva stroitel'stva RSFSR.

(Machinery--Erecting work)

PITIRIMOV, V.P., inzh.; GUREVICH, M.B., inzh.

Work required to assemble vertical technological equipment.

Mont. i spets. rab. v stroi. 23 no.12:11-14 D '61.

(MIRA 15:2)

1. Ministerstvo stroitel'stva, TSentral'noys normativnoissledovatel'skoye byuro.

(Machinery—Erecting work)

GUREVICH, M.B., arkhitektor; YEL'KIN, G.A., arkhitektor; FILENKOV, Yu.P., arkhitektor; ZIL'BERMAN, G.P., arkhitektor; KRYUKOV, G.V., arkhitektor; PANCHENKO, N.D., arkhitektor; VOLOSHINOV, G.I., arkhitektor

Regardless of passengers convenience and economics of constructions. Transp. stroi. 15 no.3:57 Mr '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhni-cheskoy estetiki (for Gurevich, Yel'kin, Filenkov). 2. Novo-sibirskproyekt (for Zil'berman). 3. MVKhTU (for Kryukov).
4. Moskovskiy gosudarstvennyy proyektnoisyskatel'skiy i nauchno-issledovatel'skiy institut; transporta Ministerstva transportnogo stroitel'stva SSSR (for Panchenko, Voloshinov).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420008-3"

CUREVICH, Moisey Davydovich; GUREVICH, Mark Davydovich; VRUBLEVSKIY, A.V. inzhener, mayor, redaktor; KAZAKOVA, V.Ya., tekhnicheskiy redaktor.

[Electron-tube instruments] Elektrovakuumnye pribory. Moskva, Voan.izd-vo Ministerstva obor. SSSR, 1955. 418 p. (MERA 8:11) (Electron tubes)

GUREVICH, Moisey Davydovich; GUREVICH, Mark Davydovich; VRUBLEVSKIY,

A.V., Inzh.-podpotkovnik, red.; KONOVALOVA, Ye.K., tekhn.red.

[Electron-tube devices] Blektrovakuumnye pribory. Ind.2., perer.
i dop. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 458 p.

(Blectron tubes)

(Blectron tubes)

25(2) 9(2)

S/146/6U/U03/01/014/016 D002/D006

AUTHOR:

Gurevich, M.D., Senior Engineer

TITLE:

The Manufacturing Technology of the Spiral Cathodes of High-Power

Oscillator Tubes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,

1960, Vol 3, Nr 1, pp 105-107 (USSR)

ABSTRACT:

The article gives a detailed description of a device for coiling spiral tungsten cathodes for high-power oscillators described previously in "Priborostroyeniye", Nr 6, 1959, pp 54-60. The device is a table type "TN-1" lathe adapted for this purpose by the Chair of Radio Engineering of LITMO. It is illustrated by photograph and electric circuit diagram. Details on the winding process are included. Mechanic N.N. Sgibnev, took part in the construction of the device. The article was recommended by the Kafedra radiotekhniki (Chair of Radio Engineering). There are 2 diagrams and 1 photograph and 1 Soviet reference.

Card 1/2

CIA-RDP86-00513R000617420008-3" **APPROVED FOR RELEASE: 03/20/2001**

S/146/60/003/01/014/016 D002/D006

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The Manufacturing Technology of the Spiral Cathodes of High-Power Oscillator Tubes

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: November 25, 1959

Card 2/2

CIA-RDP86-00513R000617420008-3" **APPROVED FOR RELEASE: 03/20/2001**

GUREVICH, Moisey Davydovich; GUREVICH, Mark Davydovich; VEUBLEVENIY, A.V., inzhener-mayor, redaktor; AAZAAOVA, V. Ye., tekhnicheskiy redaktor.

[Electronic appratus] Elektrovakuumnye pribory. Moskva, Voennoe izd-vo Ministerstva oborony Soiuza SSE, 1955. 418 p.(MLRA 8:12) (Electronic appratus and appliances)

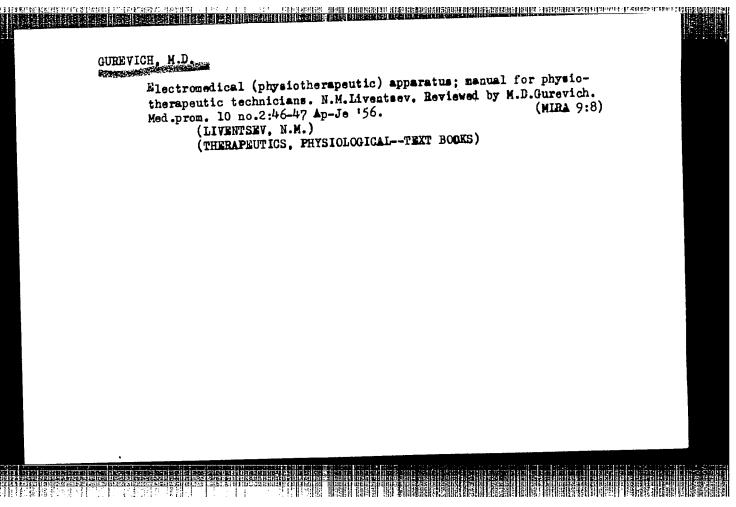
GUREVICH, M.D.,; NOVIKOV, L.S.

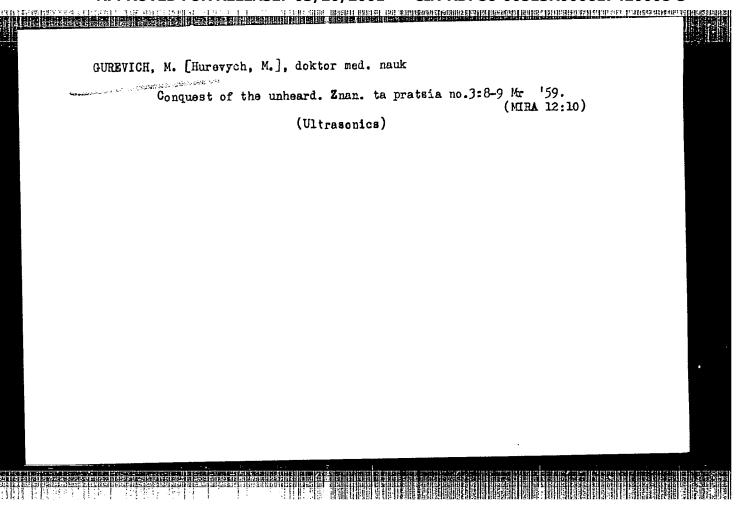
Universal ultrasonic therapeutic apparatus(UZU-1) Med. prom.
10 no.1:38-41 Ja-Hr '56, (MERA 9:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS)

(ULTRASONIC WAVES--THERAPEUTIC USE)





GUREVICH, M.D.

Apparatus for diagnosing tumors through the use of ultrasound. Med. prom. 13 no.2:52-60 F '59. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut meditsinskogo instrumentariya i oborudovaniya.

(TUMORS) (ULTRASONIC WAVES)

(MEDICAL INSTRUMENTS AND APPARATUS)

SUREVEH MADE V

PHASE I BOOK EXPLOITATION

SOV/5037

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Gurevich, Moisey Davydovich, and Mark Davydovich Gurevich

Elektrovakuumnyye pribory (Electronic Vacuum Devices) 2d ed., rev. and enl. Moscow, Voyenizdat M-va obor. SSSR, 1960. 458 p. No. of copies printed not given.

Ed.: Vrublevskiy, A.V., Engineer, Lieutenant Colonel; Tech. Ed.: Konovalova, Ye.K.

PURPOSE: This book is intended for officers who desire a deeper knowledge of electronic vacuum devices than is offered in elementary courses in radio engineering. The book is written for readers acquainted with the fundamentals of physics and mathematics on the secondary-school level.

COVERAGE: The authors describe the operation and structure of the majority of electronic vacuum devices used in radio-engineering equipment. Considerable attention is paid to the devices designed for microwave operations and pulse techniques. In the present (second) edition of the book, modern devices are described, terminology is defined more accurately, and a new chapter, "Semiconductor electronic devices" is included. No personalities are mentioned. There are 15 references, all Soviet (including 1 translation).

S/194/61/000/012/080/097 D273/D301

Gurevich, M. D., Klynkachev, V. A., Sobakin, M. A. and Yakovlev, S. I. AUTHORS:

Ultrasonic diagnostic apparatus for the study of soft TITLE:

tissues Y3A-4 (UZD-4)

Referativnyy zhurnal, Avtomatika i radicelektronika, no. 12, 1961, 22, abstract 12E122. ("Novosti med. tekhn." 1960, no. 6, 3-17) PERIODICAL:

The possibilities of ultrasonic diagnostics are examined. The diagnostic apparatus UZD-4 designed in the BHMMMMuO (VNIIMIiO) is described. It is noted that one of the most important parameters of the instrument - the maximum depth action - is almost entirely determined by the ultrasonic damping coefficient in tissues and to a lesser degree depends on the power of the transmitter, the sensitivity of the receiver and other factors. The UZD-4 works at frequencies of 2.5; 5; 10 and 15 Mc/s, a launching frequency of 1000 c/s, and a pulse length of 3 microseconds. The depth of sound-

Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420008-3"

Ultrasonic diagnostic apparatus ...

S/194/61/000/012/080/097 D273/D301

र प्राप्त के स्वतंत्र के क्षेत्रकार करने समित्र के स्वतंत्रकार के स्वतंत्रका स्वतंत्रका स्वतंत्रका स्वतंत्रका स

ing at 2.5 Mc/s reaches 90 mm and the destructive mode forms at a depth of 3.5 mm and at an azimuth of 5 mm. For 15 Mc/s, these parameters are respectively equal to 20, 1.2 and 5 mm. The power consumption is 1.4 KVA. The instrument has $2\, \mathcal{II}$ (ELT): The first tube with a linear afterglow and brightness modulation is designed to obtain a two-dimensional representation of organ sections along the scanning beam; the second tube with an oscillographic reamer is used with a fixed position indicator. A detailed description is given of the generator circuit of the UZD-4 and constructional details of the instrument. A sketch is given of the scanning position indicator consisting of a hermetically sealed body with a tube of determined length, in which a piezoelectric converter has a back and forth movement. As indicator of the position of the riezoelement, a linear potentiometer is used, whose potential is amplified and applied to the deflection system of the ELT. 5 figures. I table. Abstractor's note: Complete translation.

Card 2/2

GUREVICH, M. D.

Ultrasonic therapeutic apparatus, Nov. med. tekh. no.3:23-28 61. (MIRA 14:12)

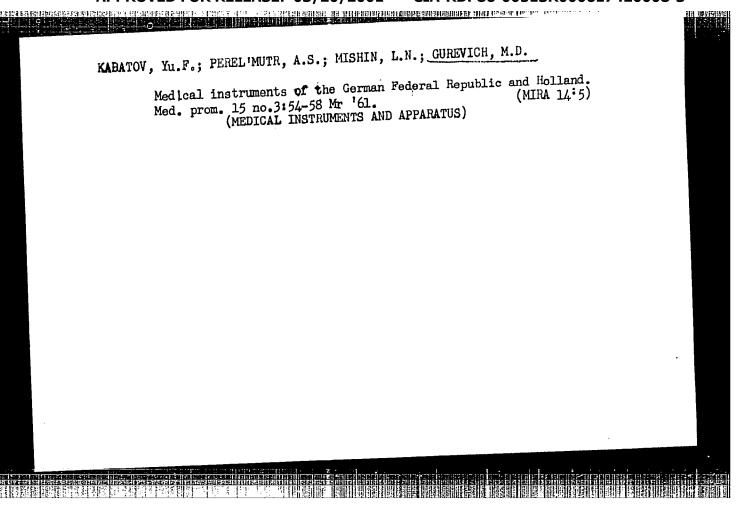
1. Vsesoyuznyy nauchno-issledovatel¹skiy institut meditsinskikh instrumentov i oborudovaniya.

(ULTRASONIC WAVES THERAPEUTIC USE)

GUREVICH, M.D.; BELETSKIY, Ye.L.; DEMIDOV, G.Ye.; KOZLOV, A.P.

A stationary ultrasonic therapeutic device. Nov.med. tekh. no.4:10-19'61. (MIRA 16:9)

l. Vsesoyuznyy nauchno-issledovatel skiy institut meditsinskikh instrumentov i oborudovaniya. (ULTRASONIC WAVES-THERAPEUTIC USE) (MEDICAL INSTRUMENTS AND APPARATUS)

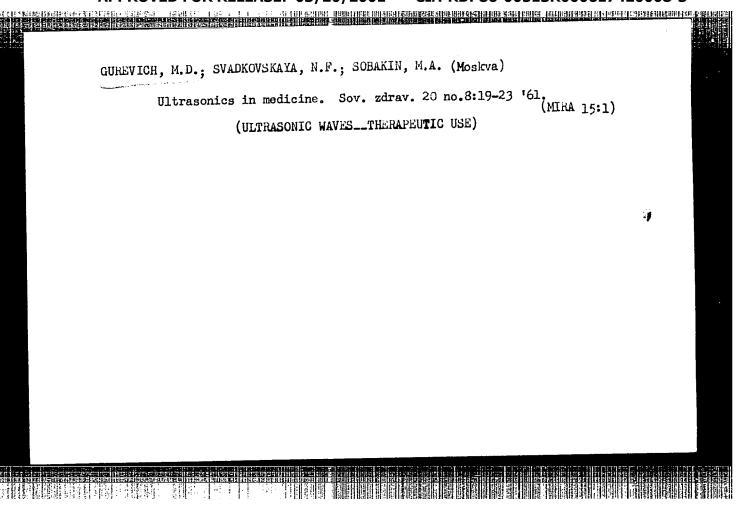


GUREVICH, M.D.; BELETSKIY, Ye.L.

Ultrasonic therapeutic portable apparatus UTP-1. Med.prom. 15 no.8:
57-60 Ag '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

(ULTRASONIC WAVES-THERAPEUTIC USE)



CIA-RDP86-00513R000617420008-3 "APPROVED FOR RELEASE: 03/20/2001 AND THE COMMENT OF THE STATE OF

39334 S/146/62/005/004/001/013 D295/D308

9,3120

Gurevich, M.D. and Zilitinkevich, S.T. AUTHORS:

TITLE:

Tests of high-power carburized cathodes under condi-

tions of repeated gaseous flashes

PERIODICAL:

Card 1/2

Izvestiya vysshikh uchebnykh zavedeniy. Priboro-

stroyeniye, v. 5, no. 4, 1962, 3-10

The last decade has witnessed the successful introduction of cathodes of carburized thoriated tungsten in high-power sealed oscillator tubes. To assess the possibility of extending their use to highpower dismountable tubes, samples of such cathodes 2 x 60 mm2 have been studied in sealed water-cooled standard-design diodes connected to ionization manometers and operated at 500 V, 1.5 - 2 A, with 46 - 48 A heater current; the more frequent sporadic release of sorbed gas as occurs in dismountable systems is simulated by breaking air-filled bulbs 4.5 cm³, situated in side branches of the diode envelope. The breaking of each little bulb causes a flash followed by a drastic current decrease (90 - 95% loss of

CIA-RDP86-00513R000617420008-3"

APPROVED FOR RELEASE: 03/20/2001

\$/146/62/005/004/001/013 D295/D308

Tests of high-power ...

emissivity). Normal emission, together with the initial vacuum conditions, is restored automatically after $2\frac{1}{2}$ to 9 hours, the restoring time depending on the pressure increase that causes the flash and the state of degassing of the apparatus. Similar experiments have been carried out in diodes connected to exhaust units. Emissivity can be restored, in this case, in 15 min. by means of thermal activation of the cathode. The restoring of the initial vacuum is slower and, after an intense gas flash (> 10-3 mm Hg) or after repeated flashes, requires that the whole diode be subject to thermal treatment. There are 3 figures and 3 tables.

ASSCCIATION!

Leningradskiy institut tochnoy mekhaniki i optiki (leningrad Institute of Precision Mechanics and Optics)

SUBMITTED:

March 21, 1962

Card 2/2

| Bulk |

S/146/62/005/005/001/016 D201/D308

AUTHORS:

Zilitinkevich, S. I. and Gurevich, M. D.

TITLE:

Performance of carbide power cathodes in reduced vacuo

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostro-

yeniye, v. 5, no. 5, 1962, 3-7

TEXT: The authors present the results of experiments carried out in 1961 at the Kafedra radiotekhniki Leningradskogo institua tochnoy mekhaniki i optiki (Department of Radio Engineering of the Leningrad Institute of Precision Mechanics and Optics) with the view to determining the lifetime of carbide power cathodes operating under the conditions of reduced vacuum. A special experimental type of power diode was used for this purpose. The pressure was regulated by means of a specially designed valve - a gas generator Py-50 (GU-50), joined to the diode together with a manometer valve JM-2 (LM-2). The gas pressure in the gas generator was regulated by activated carbon, acting as gas absorber. The carbon was heated by the filament of the GU-50 valve without oxide coating. The pressure

Card 1/ 3.

S/146/62/005/005/001/016 D201/D308

Performance of carbide ..

was thus regulated by means of adjusting the GU-50 filament current and the mass-spectrography of gases evolved by the carbon showed that their content was near to that of air. The experiments have shown the following: 1. In a power diode, operating for 500 to 800 hours at 500 V and a vacuum of 10⁻⁵ to 2.10⁻⁵ mm Hg, the cathode produces a normal emission current. 2. The emission current is not substantially affected if the vacuum is reduced down to 5.10⁻⁵ to 8.10⁻⁵ mm Hg during the first 200 to 300 hours. 3. With the pressure of 10⁻⁵ to 2.10⁻⁵ mm Hg for the first 200 to 300 hours of operation, the cathode becomes sensitive to the pressure increasing over 2.10⁻⁵ mm Hg. The emission current decreases by 15 to 20% or more at pressures between 2.10⁻⁵ and 5.10⁻⁵ mm Hg. 4. When the pressure is again reduced to 10⁻⁵ to 2.10⁻⁵ mm Hg, the emission current becomes temporarily restituted to its original value. There are 4 figures and 2 tables of numerical results.

Card 2/3

Performance of carbide ... S/146/62/005/005/001/016

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: January 31, 1962

Card 3/3

3/0248/64/000/002/0078/0081

ACCESSION NR: APLO12883

Gurevich, M. D.; Tsurupa, D.

AUTHOR:

Diagnostic application of ultrasonics SOURCE: AMN SSSR. Vestnik, no. 2, 1964, 78-81 and insert between TITLE:

TOPIC TAGS: ultrasonics, ultrasonic diagnostic device, UZD-L TUTIC TRUE: Ultrasonics, ultrasonic diagnostic device, UZD-Ultrasonic diagnostic device, echographia, biosonar, diagnostic ultrasonic diagnostic device, echographia, biosonar, diagnostic method, breast tumor, peqipheral arterial disease, one-dimensional echographia echographia echographia, two-dimensional echographia

ABSTRACT: Pathologica: processes of soft organs and tissues can be what are a character as a character and a c ABSTRACT: ratnological processes of soft organs and tissues can be investigated without contrasting substances by echographia. This investigated without contrasting an ultrasonic beam from different, method is based on reflection of an ultrasonic beam from different, density houndaries and projection of the transmitted miles. method is based on reflection of an ultrasonic beam from different, and projection of the transmitted pulses on a density boundaries and projection of the transmitted pulses on a density boundaries and projection of the transmitted pulses on a density boundaries and projection of pulses are produced by a cathode tube screen. In the more commonly used one-dimensional echographia and echographia and depth of pulses are produced by a cathode tube shape, size, in two-dimensional echographia and the reflected stationary ultrasonic beam. In two-dimensional echographia the reflected ultrasonic oscillator moves along a given trajectory and the reflected ultrasonic oscillator moves

Card 1/2

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OR RELEASE: 03/20/2001...

CIA-RDP86-00513R00061742000

ACC NR: AP6034941

f(A)

SOURCE CODE: UR/0146/66/009/005/0036/0037

AUTHOR: Gurevich, M. D.; Fedotov, G. A.

ORG: Leningrad Institute of Precision Mechanics and Optics (Leningradskiy institut tochnoy mekhaniki i optiki)

TITLE: Device for measuring vibration and small displacement

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 5, 1966, 36-37

TOPIC TAGS: mechanical vibration, vibration analysis, vibration measurement,

ABSTRACT: A portable device for measuring mechanical vibration with 0.05—1.5 mm amplitude and a 0—150 cps frequency range is described. The device includes a measuring unit with a sensor connected to it by a cable. A "mechanotron" (twin diodes with fixed anodes and a movable common cathode) is used as the sensor. The measuring unit has a bridge circuit diagonal to which is connected an M-24 miliammeter. The scale of this miliammeter is calibrated for direct reading of displacement (vibration amplitude). Displacement of the mechanotron cathode is linearly related to the current in the bridge diagonal. An oscilloscope can be connected to the bridge diagonal for analysis of vibration shape. Orig. art. has: 2 figures.

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Card 1/1

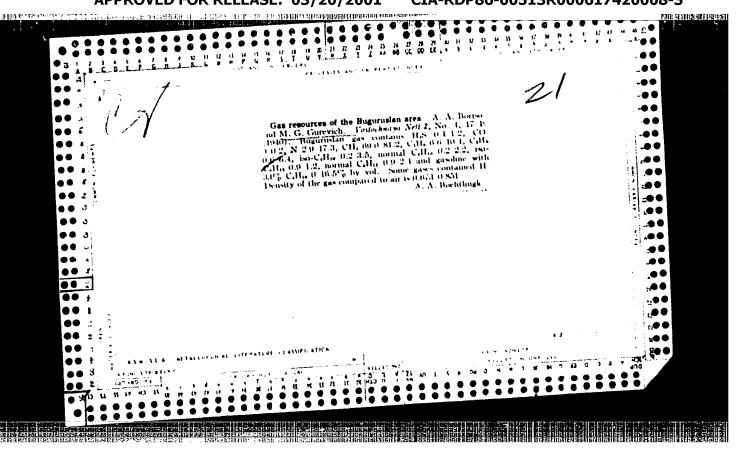
UDC: 531.71.531.14

GUREVICH, M.E., inzh.; ZHAK, L.B., Inzh.

Economic efficiency of technological processes in forging.

Vest.mashinostr. 45 no.11:74-77 N 165.

(MIRA 18:12)



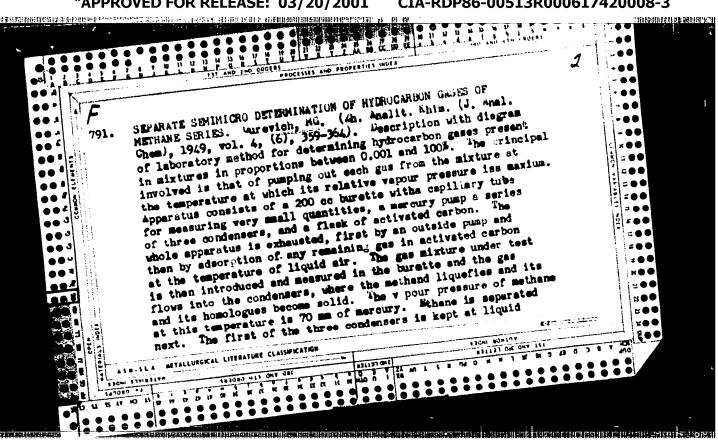
o Konnatela Rogin Copl. " Dok. AN. 52,

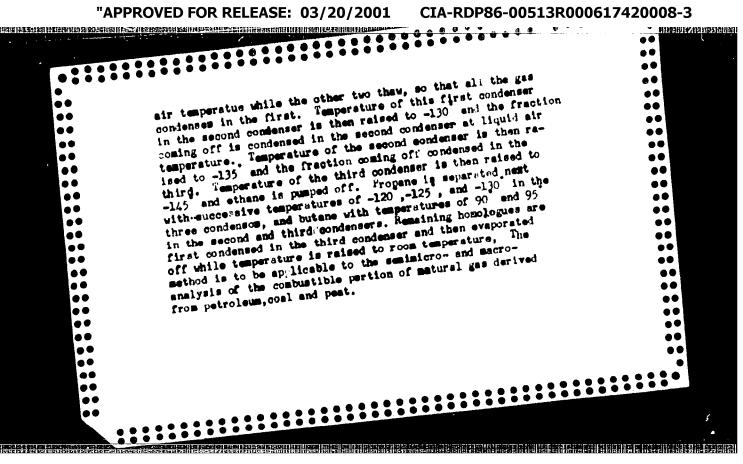
GUREVICH, M. G.

"Discovery of Hydrogen in the Gases of Kuznetsk Basin Coal." Dok. AN, 52, No. 1, 1946.

Mor. Inst. Geological Sci. Acad. Sci.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420008-3"





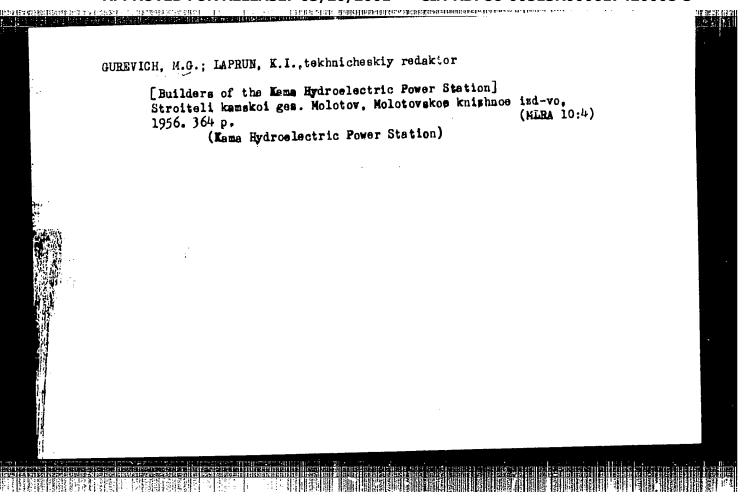
interior. GUREVICH, M. G. 58/49T21 USER/Chemistry - Carbon Dioxide Chemistry - Gases Jun 49 "Instrument for Rapid Detection of CO2 in Air," M. G. Gurevich, Ya. M. Kots, Inst of Geol Sci, Acad Sci USSR, 2 pp "Zavod Lab" Vol IV, No 6 Describes the apparatus, based on the principle of absorption of CO2 by asbestos treated with soda. Claims it is capable of detecting CO₂ concentrations as low as 2 · 10⁻³⁹ and can be used in all cases where CO₂ is not in the presence of other gases which can be absorbed by asbestos treated with sods.

GUREVICH, M. G.; FLORENCKIY, K. P.

Gases - Analysis

Review of A. A. Cherepennikov's book "Manual on the sampling and analysis of natural gases." Zhur. anal. khim. 8, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, Nay 1953, Unclassified.



Card 1/4

20-118-4-40/61 Gurevich, M. G., Ovchinnikov, I. M. AUTHORS: On Helium in the Natural Gas Jets of the Urup Copper-Pyrite Beds (O gelii v prirodnykh gazovykh struyakh Urupskogo medno-TITLE: kolchedannogo mestorozhdeniya) Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 4, pp. 771-773 PERIODICAL: (USSR) These gas jets in the ore regions of Kavkaz have never been investigated. The gas occurrence mentioned in the title was ABSTRACT: discovered in 1955 - 1956 together with compressed water in the boreholes. The above mentioned ore bed is in the upper part of the drainage area of the Urup river in the foothills of the main ridge of Kavkaz. 3 complexes of sedimentary and sedimentary-volcanogenic rocks take part in the geological structure 1: 1) the oldest middle-paleozoic, mostly green rocks which are to a great extent dislocated and only in small sections exposed by erosions; 2) a mass of red lower-Permian sediments, dislocated to a small extent, in a vast area; 3) almost horizontal, normally sedimented Jurassic rocks which are stra-

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tified in the middle part of the region with a distinct stratigraphic discordance on 1) and 2). The tectonics of the

On Helium in the Natural Gas Jets of the Urup Copper-Pyrite Beds

district is characterized by the different degree and character of the dislocations as well as by the existence of greater dislocations. 6 periods of geological development are indicated here. In the middle-Paleozoic volcanogenic rocks 2 anticlinals are developed: Urupskaya and Verkhne-Vlasinchikhinskaya. The ore body and the gas occurrence are bound to the southern wing of the Urupskaya anticlinal. The district is complicated from the hydrological standpoint. There is a number of water-bearing horizons: Chloride-sodium waters under pressure have a temperature up to 20°. This proves a considerable depth of their bedding and a relatively free circulation through the tectonically broken zones. The origin of the water is to a great extent connected with the magmatic and hydrothermal activity in the upper part of lower Carboniferous. The lower Jurassic rocks form a shield for the waters and gases of the metamorphic mass. Therefore they bubble up from the boreholes when contact of the Jurassic- and Devonian sediments is penetrated. Hence follows that neither the waters nor the gases are genetically connected with the lower Jurassic rocks. The gas jets are in connection with the mentioned waters and bubble up together with them from the boreholes. Table 1 shows the results of a total analysis of the

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On Helium in the Natural Gas Jets of the Urup Copper-Pyrite Beds

freely escaping gases and those solved in water. The gases of Urup are chemically to be counted among the hydrocarbonand mixed nitrogen-hydrocarbon-gases. Carbonic acid either lacks completely or is present in very small quantities. Hydrogen sulfide is assumed to have been present in great quantities at the beginning, in the samples taken from sources flowing for longer time, however, hydrogen sulfide was detected only in quantities below 0,01%. The solved gases show approximat_ely the same composition, except oxygen which might have been dragged from the air. Heavy hydrocarbons almost lack completely in freely liberated gases (table 2). The hydrocarbons are here connected with the metamorphism of the rocks, not with the oil formation processes. Table 3 shows the analysis of rare gases in the freely escaping gases. The helium content is high (0,4%). The distribution area of helium is perhaps greater here. The age of the gases with reference to helium and argon was determined as middle-Paleozoic which corresponds to the formation time of the chalcopyrite bed. These latter are assumed to be in connection with the hydrothermal activity and with the magnetic cycles of the Sudetskaya (Sudetic) phase of the Gertsinskaya (Hercynian) folding period which took place between lower- and middle-

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On Helium in the Natural Gas Jets of the Urup Copper-Pyrite Beds 20-118-4-40/61

Carboniferous. A comparatively low argon content confirms the depth-origin of the Urup gases.

There are 3 tables.

PRESENTED:

June 20, 1957, by D. I. Shcherbakov, Academician

SUBMITTED:

June 15, 1957

AVAILABLE:

Library of Congress

Card 4/4

AUTHORS:

Gurevich, M. G., Ovchinnikov, I. M.

20-118-5-49/59

TITLE:

A Short Description of Natural Waters in the Region of the Tyrnyauzskoye Ore Deposit (Kratkaya kharakteristika prirodnykh

and the state of t

vod rayona Tyrnyauzskogo rudnogo mestorozhdeniya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5,

pp. 1021-1024 (USSR)

ABSTRACT:

This ore deposit is located on the upper Baksan river in the depression area of the Tyrnyauz-Tau chain in the region of the El'brus mountain at an altitude of from 2000 to 3058 m. The ore deposit, being of a scarn - type is linked with a regional tectonic zone, which is represented by a narrow strip of metamors phosed and strongly dislocated Palaeozoic and Lower Jurassic rocks, which are wedged in between old crystalline slates in the shape of tectonic fragements. In the near vicinity of the El'brus aerated water springs are very frequent. The springs in the viscinity of the mentioned ore deposit are interesting in various aspects. The rock around the ore deposit hardly contains ground water down to great depths because they are drained by the Baksan river and several brooks to a deep level. Fissure water was only

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A Short Description of Natural Waters in the Region of the Tyrnyauzskoye Ore Deposit

20-118-5-49/59

found to a considerable extent at the horizon 2312 m (from the zone of the central disruption). Later on from 5 to 6 wells of such water in the granite and the greatest water supply in drill holies in scarns of ore and marble were found. Gas escape has never before been observed here. The here discovered springs appertain to the bicarbonate-sodium or potassium type with a minerali= zation below I g/liter. Table 1 gives analyses of several fresh water springs, of water from the mines and of the mineral waters of the said district. The mineral water from the structural drill hole no. 104 (at a depth of 1200 m) is especially interesting from the chemical point of view. Within the range of from zero to 764,3 m neither water nor gas were met with. Between 764,3 and 834 m gas and mineral water appeared. Clay solution was ejected to a height of 0,5 m. The gas separated from the solution in form of numerous small bubbles, which burst on the surface. Gas separation and the ejection of the solution were irregular and occurred by jerks, as if pulsating. Up to 83,80/o of Hydrogen were found in a gas sample. After 18 days this content dropped to 10/o. The initially low content of $CO_2(6,80/0)$ later on increased to 95,550/o

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and above. A sample of absolutely clear water was analyzed and

A Short Description of Natural Waters in the Region of the Tyrnyauzskoye Ore Deposit

20-118-5-49/59

the results were compiled in table 2. The content of the following specific components is increased in the drill hole no. 10h: CO₂, H₂S, Li, Fe, J, F, HBO₂ and H₂SiO₃. The mineralization is relatively high = I3,1 g/liter. The water is carbonic, containing chloride, hydrocarbonate and

sodium, and contains an excessively high amount of lithium (280,8 mg/liter) which constitutes rare case. There are 2 tables, and 1 reference, 1 of which is Soviet.

ASSOCIATION:

Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR (Institute for the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry AS USSR)

PRESENTED:

June 20, 1957, by D. I. Shcherbakov, Academician.

SUBMITTED:

June 15, 1957.

Card 3/3

GUREVICH, M.G.; KATS, G.V.; OVCHINNIKOV, I.M.; SAUKOV, A.A.

Materials on geochemical characteristics of natural gases associated with ore deposits of the Caucasus. Trudy IGEM no.46:83-91 '60.

(Ore deposits)

(MIRA 14:1) (Caucasus—Gas, Natural)

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GUREVICH, M.G.; KRAVTSOV, S.S.; OVCHINNIKOV, I.M.; SURKOV, V.N.

Redent data on the concentration of some trace elements in natural gases and waters of the Northern Caucasus. Trudy IGEM no.46:92-97

'60. (Caucasus, Northern—Mineral waters)

(Caucasus, Northern—Gas, Natural) (Trace elements)

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\$/580/61/000/000/008/016 A057/A126

1.3300 AUTHORS:

Tishchenko, I.G.; Gurevich, M.G.

TITLE:

Selective oxidation of 2-methyl-1,5-hexadiene-3-in and 3-methyl-2,6-heptadiene-4-in with peracetic acid

SOURCE:

Yerofeyev, B.V. and Tishchenko, I.G., eds. Zhidkofaznoye okisleniye nepredel'nykh organicheskikh soyedineniy, Minsk, 1961, 85 - 96

TEXT: The effect of the structure of unsaturated hydrocarbons and the nature of the substituent on the oxidation with hydroperoxides was studied on two dienes which have two non-equivalent double bonds. Similar investigations were carried out by N.M. Malenok and S.D. Kul¹kin. The present experiments demonstrated that in both dienes - 2-methyl-1,5-hexadiene-3-in and 3-methyl-2,6-heptadiene-4-in - by oxidation with acetyl hydroperoxide (peracetic acid), the double bond with the methyl group at the carbon atom is selectively oxidized, and two unsaturated monoxides of the vinylacetylene series are obtained: 2-methyl-1,2-epoxy-hexene-5-in-3 and 3-methyl-2,3-epoxyheptene-6-in-4. The other double bond, as well as the triple bond were not oxidized, not even with a great excess of peracetic acid. The structure of the obtained oxides was proved by ultraviolet ab-

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Selective oxidation of

sorption spectra. Since divinylacetylene hydrocarbons with non-symmetric structure can be easily manufactured by dehydration of vinylethynylcarbinols (according to I.N. Nazarov et al.) selective oxidation of the former could be a suitable method for the production of monoxides of the vinylacetylene series. Unsaturated aminoalcohols were prepared with a 45% yield from the obtained oxides by reaction with diethylamine. According to investigations by K.A. Krasuskiy and by F.Ya. Perveyev et al. the aminoalcohols were identified as 1-dimethylamino-2-methyl-3--hydroxyhexene-5-in-3 and 2-dimethylamino-3-methyl-3-hydroxypentene-6-in-4. These aminoalcohols are colorless liquids with an unpleasant odor, and polymerize after storage in air to glassy, reddish substances. The saturated aminoalcohols 1-dimethylamino-2-methyl-2-hydroxyhexane and 2-dimethylamino-3-methyl-3-hydroxyheptare were obtained by catalytic hydrogenation of the unsaturated aminoalcohols. Infrared spectra were taken of the last mentioned saturated aminoalcohol, and of the unsaturated monoxide 3-methyl-2,3-epoxyheptene-6-in-4 in the range 900 - 3,700 ${
m cm}^{-1}\,{
m cn}\,{
m a}\,{
m UR}\text{-10}$ spectrophotometer. The spectrum of the alcohol showed absorption bands at 3,680 cm⁻¹ (hydroxyl group), 1,040 cm⁻¹ (C-N group), 2,876 and 2,960 cm⁻¹ (symmetric and antisymmetric oscillation of CH3 group), 2,920 cm⁻¹ (antisymmetric oscillation of CH₂ group), 2,876 cm⁻¹ (possibly superposed symmetric oscillations of CH₂- and CH₃-group), and 1,266 cm⁻¹ (apparently effected by deformation-oscil-

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Selective oxidation of

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lations of the alcohol hydroxyl). The spectrum of the unsaturated monoxide showed, beside other bands, the absorption bands characteristic of hydroxyl groups and the epoxy ring, thus proving that the hydrogen addition occurs to the double and triple bonds, but also to the oxide ring, resulting in the formation of an alcohol and a saturated oxide, which probably could not be separated by the simple fractional distillation. There are 4 figures.

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s/058/62/000/003/047/092 NO51/N101

AUTHORS:

Gurevich, M. G., Solov'yev, K. N.

TITLE:

The luminescence of rare-earth phthalocyanines

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1962, 43, abstract 3V323

("Dokl. AN BSSR", 1961, v. 5, no. 7, 291 - 294)

The spectral luminescence characteristics of complex compounds synthesized by the authors from rare-earth elements and phthalocyanine were exa-TEXT: mined with respect to the problem of intramolecular transfer of the excitation energy from the organic constituent of the molecule to the rare-earth ion. Absorption and luminescence spectra of alcoholic Eu, Gd, and Yb phthalocyanine solutions have an appearance characteristic of ordinary metallic phthalocyanines. The position of the longwave absorption band depends little on the nature of the metal, while the quantum yield of fluorescence depends on it considerably, and amounts to 15% for Eu phthalocyanine, 4% for Gd phthalocyanine, and to less than 1% for Yb phthalocyanine. The temperature drop to -196°C merely narrows the fluorescence bands of rare-earth phthalocyanines. No lines of rare-earth ions appear in the spectra. Fluorescence is absent in emission spectra (in the 600 - 1,000 mju.region).

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The luminescence of rare-earth phthalocyanines

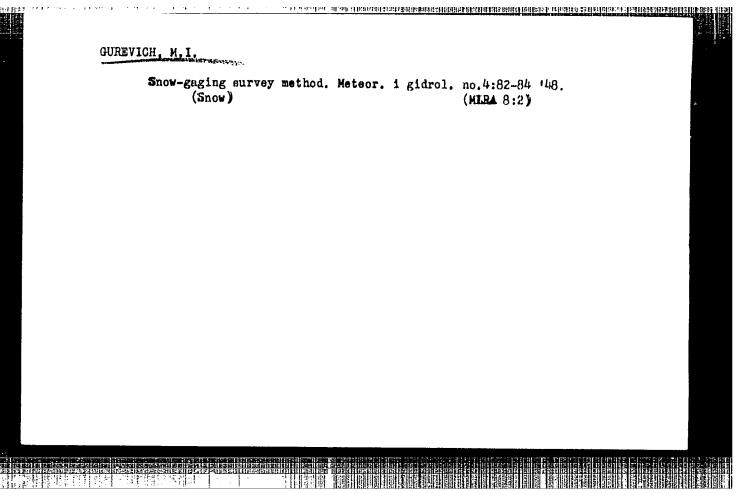
3/058/62/000/003/047/092 A061/A101

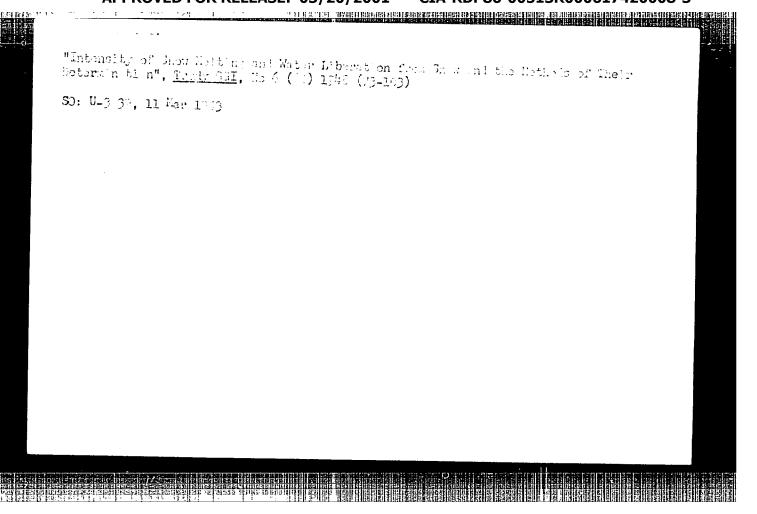
Conclusions: 1) The introduction of the paramagnetic ion into the molecule augments the probability of singlet-triplet transitions as a result of spin-orbital interaction; 2) the triplet state in rare-earth phthalocyanines is of very low energy ($\langle 10,000\text{ cm}^{-1}\rangle$), and phosphorescence lies beyond the sensitivity range of the instrument. As for Eu-Gd phthalocyanines, the excitation level of the rare earth is higher than the first singlet excitation level of \mathcal{W} -electrons of the phthalocyanine ring. Therefore, there are no rare-earth lines in the fluorescence spectrum due to transitions from the low singlet level. The low quantum yield of fluorescence is related to the radiationless singlet-triplet transitions, the probability of which is greater in Gd phthalocyanine because of the large magnetic moment in the Gd ion. As regards Yb phthalocyanine, the rare-earth level is lower than the excited singlet \mathcal{W} -level, but is higher than the first triplet level. The extremely low quantum yield of Yb-phthalocyanine fluorescence ($\langle 1\% \rangle$) is ascribed by the authors to the energy transfer from the porphin ring to the Yo ion and the subsequent radiationless transitions to the triplet state of the molecule.

R. Personov

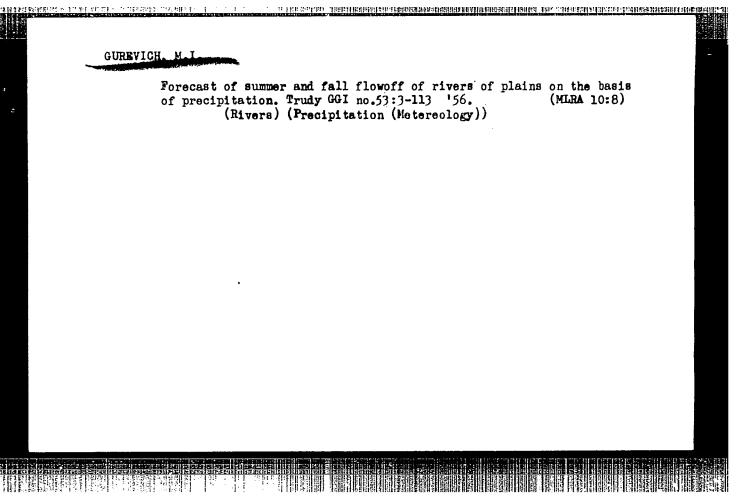
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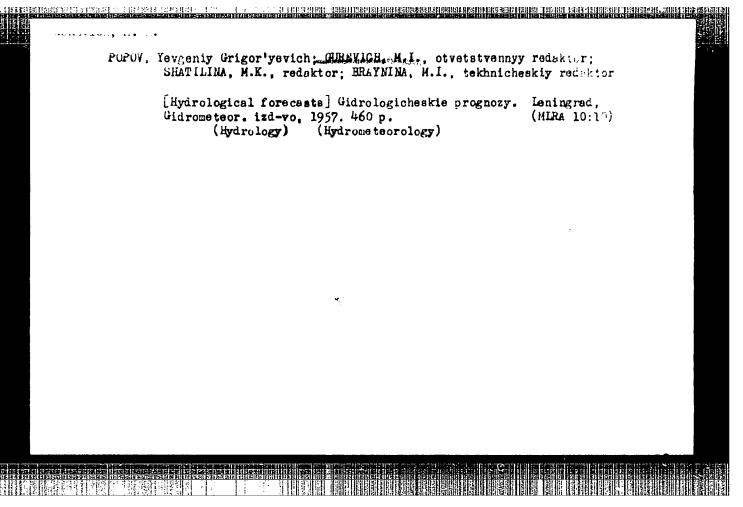
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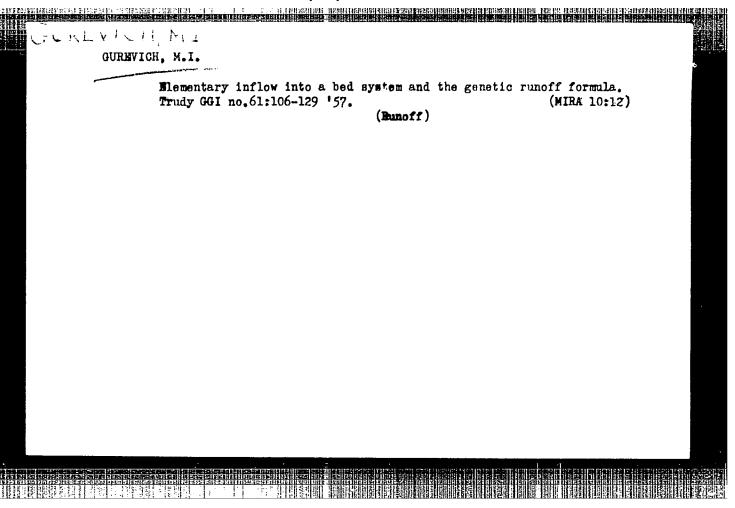


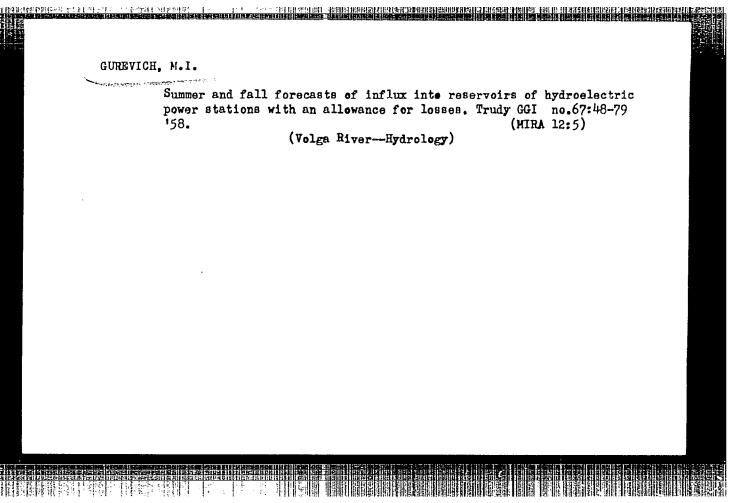


= = 10 /10 ft, 10 ft.				
Meteorological Abst. Vol. 4 No. 2 Feb. 1953 Aqueous Vapor and Hydrometeors	computing the runoff from the water yield is different fr a small area (11 m²). A very are summarized. The author beginning of the second phase of	reis., 11 eqs., append. DLC—melting snow. Due to water om the amount of melted snow. Y detailed description of the obsidistinguishes the accumulation	ittlud, Trudy, No. 14(68):177-2 Investigations were taken up accumulation in the snow cov The runoff was measured fro cryations is given and the result	or ler
The second secon			The Table 1	
	Meteorological Abst Vol. 4 No. 2 Feb. 1953 Aqueous Vapor and	Meteorological Abst. Vol. 4 No. 2 Feb. 1953 Aqueous Vapor and Hydromet.	Meteorological Abst. Vol. 4 No. 2 Feb. 1953 Aqueous Vapor and 1.2-218 Gurevich M. I., Protsessy peremeshchenlia talykh vod iz snega. [Processes of transport of melt water through it lower from snow.] Leningrad. Gosudarstvannyl Gidrologichetkil I. Computing the runoff from melting snow. Due to water the water yield is different from the amount of melted snow. a small area (11 m²). A very detailed description of the obsequence of the water yield is different from the amount of melted snow. The author distinguishes the accumulation of the second phase sea by the second phase	Meteorological Abst. Wol. 4 No. 2 Feb. 1953 Aqueous Vapor





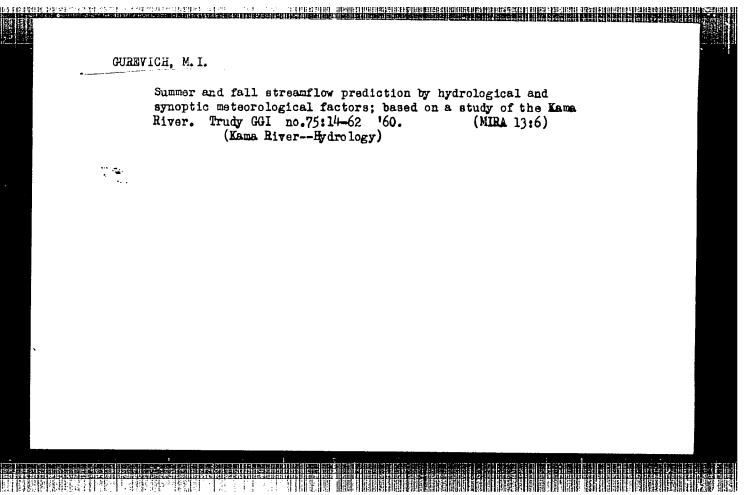


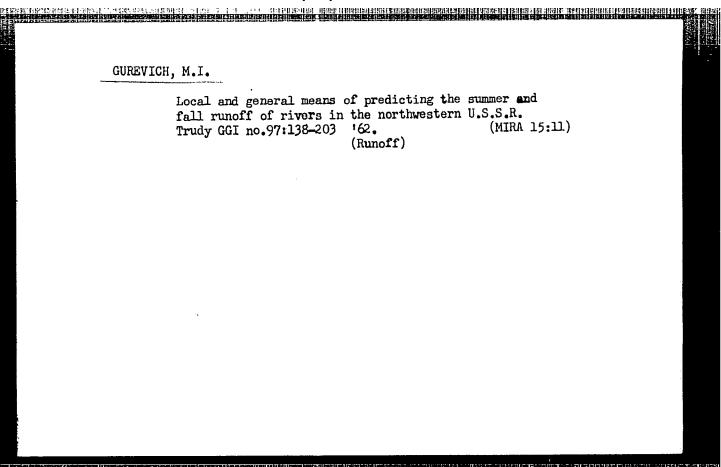


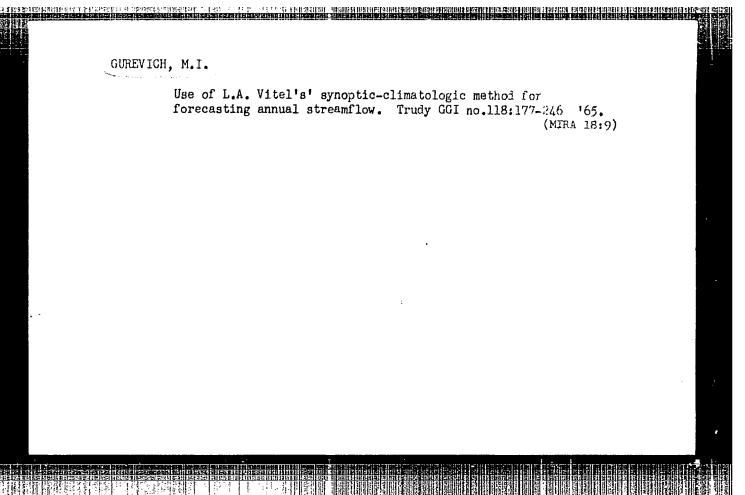
GUREVICH, M.I., kand.geogr.nauk; POPOV, I.V., kand.geogr.nauk; SFENGLER,
O.A., kand.geogr.nauk; URYVAYEV, V.A., otv.red.; SOKCLOVSKIY,
D.L., prof., doktor tekhn.nauk, red.toma; CHEBOTAREV, A.I.,
dotsent, kand.tekhn.nauk, red.toma; KALININ, G.P., prof., doktor
geogr.nauk, red.toma; GROSMAN, R.V., red.; SHATILINA, M.K., red.;
BRAYNINA, M.I., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy III Vsesoiuznogo gidrologicheskogo s"ezda. Leningrad, Gidrometeor. izd-vo. Vol.2. [Section of runoff calculations and forecasts] Sektsiia raschetov i prognozov stoka. 1959.. 767 p. (MIRA 13:2)

1. Vsesoyuznyy gidrologicheskiy s"yezd. 3d, Leningrad, 1959. (Hydrology--Congresses) (Runoff)







。 1915年 1917年 - 1917年 - 1917年 - 1917年 - 1918年 - 1918年

GUREVICH, M.I. [Hurevych, M.I.]; SHROTINA, M.F. [Syrotina, M.F.]; POVZHITKOV, M.M. [Povzhytkov, M.M.]

Changes in some hemodynamics and hematologic indices in experimental disorders of the coronary blood circulation. Fiziol. zhur. [Ukr.] 10 no.2:171-176 Mr-Ap '64. (MIRA 18:7)

1. Iaboratoriya fiziologii krovoobrashcheniya Instituta fiziologii im. A.A.Bogomol'tsa AN UkrSSR, Kiyev.

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GORSETTE, M. F. Tobresyon, M. I. 1; KOZACHUK, Yu.S.; POVERTTKOV, M.M.

Some functional and morphological changes in experimental disorders of the coronary circulation. Fiziol. zhur. [Ukr.] 10 no.3:342-350 My-Je 164. (MIRA 18:9)

1. Laboratoriya fiziologii krovoobrashcheniya Instituta fiziologii im. 8.A.Bogomel'tsa AN UkrSSR, Kiyev, i Kafedra patologicheskoy anatomii Kiyevskogo meditsinskogo instituta im. akad. A.A.Bogomol'tsa.

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MAKARCHENKO, A.F., akademik, otv. red.; BOGACH, I.G., prof., red.; TROSHIKHIN, V.A., prof., red.; GUREVICH, M.I., doktor med. nauk, red.; KOLCHINSKAYA, A.Z., doktor biol. nauk, red.; PUTILIN, N.I., prof., red.; OLEYNIK, I.F., kand. biol. nauk, red.; PREOERAZHENSKIY, N.N., kand. vet. nauk, red.; SNEZHIN, M.I., red.

[Regulation of vegetative functions] Reguliatsila vegetativnykh funktsii. Kiev, Naukova dumka, 1965. 246 p. (MIRA 18:8)

1. Akademiya nauk URSR, Kiev. 2. AN Vkr.SSR (for Makarchenko).

3. Institut fiziologii im. A.A.Bogomol'tsa AN Ukr.SSR (for Putilin).

GURTVICH, N.I. (Hurevych, N.I.); KVITNITSKIY, M.Ye. [Kwitnyis'kyi, M.IE.];
POVZHITKOV, M.M. [Povzhytkov, M.M.]

Spatial precardiac vectorcardiography in experimental myocardial
infarct. Fiziol. zhur. [Ukr.] 11 no.1:52-57 Ja-F '65. (MTRA 18:7)

1. Laboratoriya fiziologii krovcobrashcheniy Instituta fiziologii im.
A.A.Bogomol'tsa AN UkrSSR, Kiyev.

GUREVICH, K.i.; FOVEHITKY, M.M.; MANSTROV, I.

Characteristics of the basic hemodynamic indices in dogs, cats and rabbits. Fizicl. zhur. 51 nc.8s972-977 kg '65.

(MIRA 18:7)

1. Laboratoriya fiziologii krevcobroshcheniya Lestituta fiziologii imani Bogomol'tsa AN UkrSSR, Edyev.

GUREVICH, M.I. [Hurevych, M.I.]; BERSHTEYN. S.A.; POVZHITKOV, M.M. [Povzhytkov, M.M.]

Correlation between tissue oxygen metabolism. hemodynamics and regional blood circulation. Fiziol.zhur. [Ukr.] 11 nc.4:555-563
J1-Ag '65. (MIRA 18:10)

1. Laboratoriya fiziologii krevoobrashcheniya Instituta fiziologii

im. Bogomol'tsa AN UkrSSR, Kiyev.